

AMENDMENTS TO THE CLAIMS

1. (currently amended) A double-sided printing machine, comprising:

a printing unit for printing opposite faces of a sheet-like material;

ink supply means for supplying ink to said printing unit, said ink supply means being supported to be brought into contact with and separated from said printing unit;

a delivery pile, provided downstream of the printing unit, for collecting said sheet-like material; and

transport means for transporting said sheet-like material from said printing unit to said delivery pile while holding said sheet-like material,

——said transport means including,

\_\_\_\_\_ a first delivery chain passing through a lower side of said ink supply means,

\_\_\_\_\_ a second delivery chain provided above the delivery pile,

\_\_\_\_\_ a plurality of transport cylinders for transporting said sheet-like material from said first delivery chain to said second delivery chain and provided at a position higher than the first delivery chain and lower than the second delivery chain, said plurality of transport cylinders include a first transport cylinder and a second transport cylinder, provided adjacent to the delivery

pile and arranged in zigzag fashion with respect to a vertical direction; ~~for transporting said sheet like material from said first delivery chain, and a second delivery chain for transporting said sheet like material from said plurality of transport cylinders;~~

first detection means for detecting a status of printing on one face of said sheet-like material when said sheet-like material is transported by said first transport cylinder; and

second detection means for detecting a status of printing on the other face of said sheet-like material when said sheet-like material is transported by said second transport cylinder.

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3. (previously presented) A double-sided printing machine according to claim 1, wherein each of said first and second transport cylinders is a suction cylinder.

4. (previously presented) A double-sided printing machine according to claim 1, further comprising:

first drying means ~~is~~ provided on the upstream side, with respect to the transport direction, of a detection position at which said first detection means detects said sheet-like material held by said first transport cylinder; and

second drying means is provided on the upstream side, with respect to the transport direction, of a detection position at

which said second detection means detects said sheet-like material held by said second transport cylinder.

5. (previously presented) A double-sided printing machine according to claim 4, wherein said first drying means is disposed to face said first transport cylinder, and said second drying means is disposed to face said second transport cylinder.

6. (currently amended) A quality inspection apparatus for a double-sided printing machine having a printing unit and a delivery pile provided downstream of the printing unit, comprising:

transport means, provided between the printing unit and the delivery pile, for transporting a sheet-like material from the printing unit to the delivery pile, said transport means including,

a first delivery chain passing through a lower side of said printing unit,

a second delivery chain provided above the delivery pile,  
and

a first transport cylinder and a second transport cylinder provided at a position higher than the first delivery chain and lower than the second delivery chain and adapted to transport the sheet-like material from the first delivery chain to the second delivery chain, the first transport cylinder and the second transport cylinder being arranged in zigzag with respect to a vertical direction, such that a first space is formed above the

first transport cylinder, and a second space is formed below the second ~~first~~ transport cylinder;

first detection means, provided in the first space, for detecting a status of printing on one face of said sheet-like material when said sheet-like material is transported by said first transport cylinder; and

second detection means, provided in the second space, for detecting a status of printing on the other face of said sheet-like material when said sheet-like material is transported by said second transport cylinder.

7. (previously presented) The quality inspection apparatus according to claim 6, wherein at least one of said first and second transport cylinders is a suction cylinder.

8. (previously presented) The quality inspection apparatus, according to claim 6, wherein said first detection means includes a first spot light provided inside the first space and said second detection means includes a second spot light provided inside the second space.

9. (previously presented) The quality inspection apparatus, according to claim 6, further comprising:

first drying means provided in the first space for drying said sheet-like material while being held by said first transport cylinder; and

second drying means provided in the second space for drying said sheet-like material while being held by said second transport cylinder.

10. (currently amended) A double-sided printing machine, comprising:

a printing unit for printing opposite faces of a sheet-like material;

ink supply means for supplying ink to said printing unit, said ink supply means being supported to be brought into contact with and separated from said printing unit;

a delivery pile provided downstream of the printing unit;

transport means for transporting said sheet-like material from said printing unit to the a-delivery pile while holding said sheet-like material, said transport means including,

a first delivery chain passing through a lower side of said ink supply means,

a second delivery chain provided above the delivery pile,  
and

a plurality of transport cylinders, provided at a position higher than the first delivery chain and lower than the second delivery chain, for transporting said sheet-like material from said first delivery chain to said, ~~and a second delivery chain for transporting said sheet-like material from said plurality of~~

~~transport—cylinders~~, said plurality of transport cylinders including at least a first transport cylinder and a second transport cylinder, and;

first detection means for detecting a status of printing on one face of said sheet-like material when said sheet-like material is transported by said first transport cylinder; and

second detection means for detecting a status of printing on the other face of said sheet-like material when said sheet-like material is transported by said second transport cylinder;

first drying means provided on the upstream side, with respect to the transport direction, of a detection position at which said first detection means detects said sheet-like material held by said first transport cylinder; and

second drying means provided on the upstream side, with respect to the transport direction, of a detection position at which said second detection means detects said sheet-like material held by said second transport cylinder.

11. (new) A quality inspection apparatus for a double-sided printing machine, comprising:

a printing unit for printing on first face and a second face, opposite to the first face, of a sheet-like material;

ink supply means, adapted to be in contact with said printing unit, for supplying ink to said printing unit;

a delivery pile, disposed downstream of said printing unit, for accumulating said sheet-like material;

transport means for transporting said sheet-like material from said printing unit to said delivery pile while holding said sheet-like material, said transport means including,

a first delivery chain passing through a lower side of said ink supply means,

a plurality of transport cylinders, disposed near said delivery pile, for transporting said sheet-like material from said first delivery chain,

a second delivery chain for transporting said sheet-like material from said plurality of transport cylinders to said delivery pile,

said plurality of transport cylinders including at least a first transport cylinder, a second transport cylinder disposed downstream of said first transport cylinder in a direction of transport of said sheet-like material, and

a third transport cylinder located downstream of said second transport cylinder in the direction of transport of said sheet-like material so as to be opposed to and in contact with said second transport cylinder;

first detection means for detecting a status of printing on the first face of said sheet-like material when said sheet-like material is being transported by said first transport cylinder; and

second detection means for detecting a status of printing on the second face of said sheet-like material when said sheet-like material is being transported by said second transport cylinder.